	Application No.	Applicant(s)	
A1 41 PA11 1114	10/626,778	WANG, CHIEN-JUNG	
Notice of Allowability	Examiner	Art Unit	
	Brook Kebede	2823	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. X This communication is responsive to <u>24 July 2003</u> .			
2. The allowed claim(s) is/are <u>1-7</u> .			
3. The drawings filed on 24 July 2003 are accepted by the Examiner.			
<ul> <li>4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some* c) None of the:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>			
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			
5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.			
6. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.			
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached			
1)  hereto or 2)  to Paper No./Mail Date			
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date			
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).			
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5 □ Nation of Informal D	otant Application (DTO 152)	
		atent Application (PTO-152)	
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No./Mail Dat	6. ☑ Interview Summary (PTO-413), Paper No./Mail Date 吐力し♥. 7. ☑ Examiner's Amendment/Comment	
<ol> <li>Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date</li> </ol>	7. Examiner's Amenda		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. ☐ Other	nt of Reasons for Allowance	

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# **EXAMINER'S AMENDMENT**

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Daniel R. McClure on December 9, 2004.

2. The application has been amended as follows:

In the Claims:

In claim 1, line 7, change "said first" to --said first region ---

In claim 1, line 29, change "first semiconductor devices" to --said first semiconductor devices--.

In claim 1, line 33, change "second semiconductor devices" to --said second semiconductor devices--.

In claim 2, line 8, change "a silicon substrate" to --said silicon substrate--.

In claim 3, line 3, change "integrated circuit" to -- **DRAM** integrated circuit--.

In claim 3, line 3, change "a silicon substrate" to --said silicon substrate--.

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## Allowable Subject Matter

3. Claims 1-7 are allowed over prior art of record.

## Reasons for Allowance

4. The following is an examiner's statement of reasons for allowance:

The prior art of record neither anticipates nor renders obvious the claimed subject matter of the instant application as a whole either taken alone or in combination, in particular, prior art of record does not teach "a first probe pad connected to said non-activating bit lines provided to said first semiconductor devices formed in said first region; and a second probe pad connected to said non-activating bit lines to said second semiconductor devices formed in said second region," as recited in claim 1.

Claims 2-7 also allowed as being dependent of the allowed independent base claim.

Re claim 1, Kushiyama et al. (US/5,377,152) disclose a test device assembly for testing of bridging of DRAM device that includes plurality of word-lines and bit-lines including dummy (i.e., non-activating) plurality of word-lines connected to the respective dummy (non-activating) bit-lines. However, Kushiyama et al. do not disclose "a first probe pad connected to said non-activating bit lines provided to said first semiconductor devices formed in said first region; and a second probe pad connected to said non-activating bit lines to said second semiconductor devices formed in said second region."

Adams et al. (US/6,208,572) also disclose a memory device that comprises a bit-line contact testing. However, Adams et al. fail to teach "a first probe pad connected to said non-activating bit lines provided to said first semiconductor devices formed in said first region; and a

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second probe pad connected to said non-activating bit lines to said second semiconductor devices formed in said second region."

Therefore, both Kushiyama et al. and Adams et al. do not teach the claimed limitation as recited in claim 1.

### Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure Nadeau-Dostie et al. (US/6,046,946), Gratz et al. (US/6,191,985) and Churchill et al. (US/6,388,927) also disclose similar inventive subject matter. However, prior art of record neither teach nor anticipate the claimed invention of the instant application as a whole either taken alone or in combination.
- 6. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Correspondence

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brook Kebede whose telephone number is (571) 272-1862. The examiner can normally be reached on 8-5 Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on (571) 272-1855. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

BK

December 9, 2004

George Fourson
Primary Examiner